

I claim:

1. Apparatus for trimming scrap from a moving web comprising:
 a knife roll adapted to support said web as it moves around said roll;
 a blade biased against said web as the web moves around the roll; said blade
 being adapted to trim a strip of scrap from said web;
 a nozzle adapted to direct a stream of fluid into the area where said strip leaves
 said roll and generate a pressure that presses said strip away from said roll.

2. Apparatus according to claim 1 wherein said web comprises sheet metal or foil

3. Apparatus according to claim 2 wherein said sheet metal or foil comprises
 aluminum.

4. Apparatus according to claim 1 wherein said fluid comprises air.

5. Apparatus according to claim 4 wherein said nozzle comprises a bore having a
 discontinuity at a discharge from said nozzle that reduces any Coanda effects around the surface
 of said nozzle.

6. Apparatus according to claim 5 wherein said bore terminates at a discharge face
 that is substantially perpendicular to said bore.

7. A slit for sheet metal or foil comprising:
 a knife roll adapted to support said web as it moves around said roll;
 one or more blades biased against said sheet metal or foil as the sheet or foil
 moves around the roll; said blade or blades being adapted to trim one or more strips of
 scrap from said sheet or foil;
 a scrap processing system comprising
 a trim tube with a mouth adapted to receive scrap from said knife roll, said
 trim tube being connected to and adapted to convey scrap to said chamber; and
 a nozzle adapted to emit a stream of fluid that flows generally outward
 from said nozzle, with minimal Coanda effects around the side of said nozzle, and

11 presses against a side of said strip adjacent to said knife roll in an area where said
12 strip separates from said roll.

1 8. A slitter according to claim 7 further comprising one or more fans adapted to
2 reduce pressure within said trim tube.

1 9. A slitter according to claim 7 further comprising one or more nozzles adapted to
2 inject fluid into said trim tube and induce a flow of entrained air into said trim tube.

1 10. Apparatus for removing scrap from a knife roll of a slitter, comprising:
2 a scrap receiver adapted to collect scrap from said roll; and
3 a nozzle adapted to direct a stream of fluid into the area where said strip leaves
4 said roll and generate a pressure that guides said strip toward said scrap receiver.

1 11. Apparatus according to claim 10 wherein said fluid comprises air.

1 12. Apparatus according to claim 11 wherein said nozzle comprises a bore having a
2 discontinuity at a discharge from said nozzle that reduces any Coanda effects around the side of
3 said nozzle.

1 13. Apparatus according to claim 12 wherein said bore terminates at a discharge face
2 that is substantially perpendicular to said bore.

1 14 A method for slitting sheet material comprising:
2 passing a supply web of said material between a support roll and a blade pressed against
3 said web, whereby said supply web is slit into one or more product webs and at least one trim
4 strip;

5 directing a stream of fluid against said strip as said the strip leaves said roll, whereby
6 said strip is pressed strip away from said roll and directed toward a scrap reclamation receiver.

1 15. A method in accordance with claim 14 wherein said material comprises
2 aluminum.

1 16. A method in accordance with claim 14, further comprising reducing pressure
2 within said scrap reclamation receiver.

1 17. A method in accordance with claim 14 wherein said stream of fluid comprises air.

1 18. A method in accordance with claim 17 wherein said stream of air is directed
2 against said the surface of said roll and flows around said roll to the area where said strip leaves
3 said roll.

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